Assignment - 23 (Basics of C++)

1. Write a C++ program to print Hello MySirG on the screen.

#include<iostream>

using namespace std;

int main()

{

cout<<"Hello MySirG";

return 0;

}

2. Write a C++ program to print Hello on the first line and MySirG on the second line using endl.

#include<iostream>

using namespace std;

int main()

{

cout<<"Hello"<<endl<<"MySirG"<<endl;

return 0;

}

3. Write a C++ program to calculate the sum of two numbers.

#include<iostream>

using namespace std;

int main()

{

int num1, num2;

cout<<"Enter 2 numbers to find their sum: ";

cin>>num1>>num2;

cout<<"Sum of "<<num1<<" and "<<num2<<" is "<<num1 + num2<<"."<<endl;

return 0;

}

4. Write a C++ program to calculate the area of a circle

#include<iostream>

using namespace std;

int main()

{

float radius;

cout<<"Enter value of radius to calculate area of circle: ";

cin>>radius;

cout<<"Area of circle having radius "<<radius<<" is "<<3.14 \* radius \* radius<<"."<<endl;

return 0;

}

5. Write a C++ program to calculate the volume of a cuboid.

#include<iostream>

using namespace std;

int main()

{

float length, width, height;

cout<<"Enter values of length, width and height to calculate volume of cuboid: ";

cin>>length>>width>>height;

cout<<"Volume of cuboid is "<<length \* width \* height<<"."<<endl;

return 0;

}

6. Write a C++ program to calculate an average of 3 numbers.

#include<iostream>

using namespace std;

int main()

{

float num1, num2, num3;

cout<<"Enter 3 numbers to find their average: ";

cin>>num1>>num2>>num3;

cout<<"Average of "<<num1<<", "<<num2<<" and "<<num3<<" is "<<(num1 + num2 + num3) / 3.0<<endl;

return 0;

}

7. Write a C++ program to calculate the square of a number

#include<iostream>

using namespace std;

int main()

{

int number;

cout<<"Enter a number to calculate its square: ";

cin>>number;

cout<<"Square of "<<number<<" is "<<number \* number<<endl;

return 0;

}

8. Write a C++ program to swap values of two int variables without using third variable

#include<iostream>

using namespace std;

int main()

{

int x, y;

cout<<"Enter first number: ";

cin>>x;

cout<<"Enter second number: ";

cin>>y;

cout<<"Before swapping:"<<endl<<"The values are first number="<<x<<" and second number="<<y;

x = x + y;

y = x - y;

x = x - y;

cout<<endl<<"After swapping:"<<endl<<"The values are first number="<<x<<"and second number="<<y;

return 0;

}

9. Write a C++ program to find the maximum of two numbers.

#include<iostream>

using namespace std;

int main()

{

double num1, num2;

cout<<"To check the greater number between two numbers,\nEnter first number: ";

cin>>num1;

cout<<"Enter second number: ";

cin>>num2;

if(num1 > num2)

cout<<num1<<" is greater.";

else

cout<<num2<<" is greater.";

return 0;

}

10. Write a C++ program to add all the numbers of an array of size 10.

#include<iostream>

using namespace std;

int main()

{

int arr[10], i, sum = 0;

cout<<"Enter 10 numbers: ";

for(i = 0; i < 10; i++)

cin>>arr[i];

for(i = 0; i < 10; i++)

sum = sum + arr[i];

cout<<"Sum of all 10 numbers of array is "<<sum<<endl;

return 0;

}